

IN THE CLAIMS:

Please cancel Claims 1-17 without prejudice.

Please add the following newly-drafted Claims 21-23.

A₂
1 21. A program conversion apparatus that changes a source program to an object
2 program for a target processor executing long-word instructions, comprising:

3 a retrieving unit, for retrieving a pair of instructions from the source program, the
4 pair of instructions comprising a first instruction denoting a first calculation of two variables
5 and a second instruction indicating a second calculation, different than the first calculation,
6 of the same two variables;

7 a generating unit, for generating a special instruction corresponding to the retrieval
8 pair of instructions, the special instruction comprising an operation code denoting the first
9 calculation and the second calculation, and two operands representing the two variables; and

10 an arranging unit, for arranging the generated special instruction into a long-word
11 instruction.

12 22. The program conversion apparatus of Claim 21, wherein the first instruction denotes
13 addition, and the second instruction denotes subtraction.

14 23. The program conversion apparatus of Claim 22, wherein:

15 the target processor includes a first instruction execution unit having a first
16 calculation unit, and a second instruction execution unit having a second calculation unit and
17 a multiplication unit; and

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